

Appln. No. 09/216,378  
Amendment dated April 17, 2006  
Reply to Office Action mailed August 4, 2005

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims** (deleted text being struck through and added text being underlined):

- 1           1.     (Previously Presented) A personal computer comprising:  
2           a built-in microphone for detecting ambient noise;  
3           a noise cancellation module coupled to the microphone that generates  
4 a noise cancellation signal responsive to the detected ambient noise; and  
5           a digital signal processor for mixing the noise cancellation signal with  
6 an audio signal provided from a desired source for provision to a standard  
7 headphone compatible audio output connection to reduce headphone noise.
- 1           2.     (Previously Presented) The personal computer of claim 1 and  
2 further comprising an optical disc drive for providing the audio signal.
- 1           3.     (Previously Presented) The personal computer of claim 1  
2 wherein the noise cancellation module comprises a software program  
3 running on a processor.
- 1           4.     (Previously Presented) The personal computer of claim 1  
2 wherein the microprocessor is the central processing unit for the computer  
3 system.
- 1           5.     (Previously Presented) The personal computer of claim 1  
2 wherein the digital signal processor is located on a sound board.
6.     (Cancelled)
- 1           7.     (Previously Presented) The personal computer of claim 1  
2 wherein the computer system is a mobile computer.

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1           8.     (Previously Presented) A method of reducing ambient noise  
2 normally heard by a user through headphones when listening to audio  
3 provided via a mobile computer system, comprising:  
4           detecting the ambient noise via a microphone built-in to the mobile  
5 computer system;  
6           generating a noise cancellation signal based on the detected ambient  
7 noise; and  
8           mixing the noise cancellation signal with the audio from the compact  
9 disc,  
10          wherein the mixed signal is applied to a standard headphone  
11 compatible audio output connection to reduce the ambient noise in the  
12 headphones.

1           9.     (Original) The method of claim 8 and further comprising  
2 converting the detected ambient noise to an electrical signal.

1           10.    (Original) The method of claim 8 wherein detecting the ambient  
2 noise is performed using a built-in microphone within the mobile computer  
3 system.

1           11.    (Original) The method of claim 8 wherein generation of the  
2 noise cancellation signal is done when the optical disc drive is active.

1           12.    (Original) The method of claim 8 wherein generation of the  
2 noise cancellation signal is initiated manually via a software interface.

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1           13. (Previously Presented) A machine readable medium having  
2 machine readable instructions stored thereon for causing a computer to  
3 perform the steps comprising:  
4           detecting environmental background noise via a microphone built-in to  
5 the computer;  
6           converting the detected environmental background noise into an  
7 electrical signal;  
8           generating a noise cancellation signal based on the electrical signal;  
9 and  
10          mixing the noise cancellation signal with an audio signal for provision  
11 to a standard headphone compatible audio output connection to reduce  
12 headphone noise.

1           14. (Original) The machine readable medium of claim 13 wherein the  
2 step of generating a noise cancellation signal is performed automatically  
3 when the optical disc drive is active.

1           15. (Original) The machine readable medium of claim 13 wherein the  
2 step of generating a noise cancellation signal is activated through a  
3 software interface.

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1        16. (Previously Presented) A personal computer comprising:  
2        a housing;  
3        a microprocessor mounted on the housing;  
4        memory coupled to the microprocessor,  
5        a storage device coupled to the microprocessor;  
6        a microphone built into the housing for detecting noise ambient to the  
7        housing;  
8        a noise cancellation module coupled to the microphone that generates  
9        a noise cancellation signal responsive to the detected ambient noise; and  
10       a digital signal processor for mixing the noise cancellation signal with  
11       an audio signal provided from a desired source for provision to a standard  
12       headset compatible audio output connection to reduce headphone noise.

1       17. (Previously Presented) The personal computer of claim 16 and  
2       further comprising a display device integrated into the display device.

1       18. (Previously Presented) The personal computer of claim 17  
2       wherein the personal computer comprises a mobile computer system having  
3       a source of power.

1       19. (Original) The personal computer of claim 16 wherein the noise  
2       cancellation module is part of the microprocessor.

1       20. (Original) The personal computer of claim 17 wherein the  
2       personal computer comprises a mobile computer system and the noise  
3       cancellation module is provided by the microprocessor.

1       21. (Original) The personal computer of claim 1 wherein the audio  
2       source comprises a compact disc playing game or music sounds.

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1           22. (Original) The personal computer of claim 1 wherein the noise  
2           cancellation signal is mixed with the audio signal to cancel ambient noise  
3           such that the audio signal is audible through a speaker coupled to the audio  
4           output connection.

1           23. (Original) The method of claim 8 wherein the audio from the  
2           compact disc comprises music.

1           24. (Previously Presented) A mobile computer comprising:  
2           a microphone integrated into the mobile computer for detecting  
3           ambient noise;  
4           a noise cancellation software module coupled to the microphone that  
5           generates a noise cancellation signal responsive to the detected ambient  
6           noise, and having a profile for compensating for keyboard key clicks  
7           detected by the microphone; and  
8           a digital signal processor for mixing the noise cancellation signal with  
9           an audio signal provided from a desired source for provision to an audio  
10          output connection for a standard headset.

1           25. (Previously Presented) The mobile computer of claim 24 wherein  
2           the audio output connection comprises an analog output port.

1           26. (Previously Presented) The mobile computer of claim 25 and  
2           further comprising a digital to analog converter coupled between the digital  
3           signal processor and analog output port.

1           27. (Previously Presented) The mobile computer of claim 24 wherein  
2           the noise cancellation signal is generated when a source of audio output is  
3           activated.

28. (Cancelled)

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1           29. (Previously Presented) The personal computer of claim 1  
2 wherein said noise cancellation module generates the noise cancellation  
3 signal based on said ambient noise, said noise cancellation signal being  
4 generated in a form suitable to reduce headphone noise in the standard set  
5 of headphones connected via the audio output connection.

1           30. (Previously Presented) The personal computer of claim 1  
2 wherein said headphone noise comes from a same source as said ambient  
3 noise.

1           31. (Previously Presented) The method of claim 8 wherein said noise  
2 cancellation signal is generated based on the detected ambient noise in a  
3 format suitable to reduce headphone noise in the standard set of headphones  
4 connected via the audio output connection.

1           32. (Previously Presented) The method of claim 8 wherein said  
2 headphone noise comes from a same source as said ambient noise.

1           33. (Previously Presented) The computer readable medium of claim  
2 13 wherein said noise cancellation signal is generated based on the detected  
3 ambient noise in a format suitable to reduce headphone noise in the standard  
4 set of headphones connected via the audio output connection.

1           34. (Previously Presented) The computer readable medium of claim  
2 13 wherein said headphone noise comes from a same source as said ambient  
3 noise.

1           35. (Previously Presented) The personal computer of claim 16  
2 wherein said noise cancellation module generates the noise cancellation  
3 signal based on said ambient noise, said noise cancellation signal being  
4 generated in a format suitable to reduce headphone noise in the standard set  
5 of headphones connected via the audio output connection.

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1        36. (Previously Presented) The personal computer of claim 16  
2 wherein said headphone noise comes from a same source as said ambient  
3 noise.

1        37. (Previously Presented) The mobile computer of claim 24 wherein  
2 said noise cancellation module generates the noise cancellation signal based  
3 on said ambient noise, said noise cancellation signal being generated in a  
4 format suitable to reduce headphone noise in the standard set of headphones  
5 connected via the audio output connection.

1        38. (Currently Amended) The mobile computer of claim 24 wherein  
2 said headphone noise comes from a ~~some~~ same source as said ambient noise.